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WORK PLAN FOR ZONE K BUILDING 2513 TANK 2513 A SCDDEC NUMBER 00960 CNC  
CHARLESTON SC  
4/18/2001  
CH2M HILL

**Work Plan for Zone K; Building 2513  
Tank 2513 A  
SCDHEC No: 00960**

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**Prepared For:**

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**TABLE OF CONTENT**

<b>SECTION</b>	<b>PAGE No:</b>
<b>1.0 WORK PLAN.....</b>	<b>1</b>
<b>2.0 HEALTH AND SAFETY.....</b>	<b>1</b>
<b>3.0 SAMPLING AND ANALYSIS PLAN.....</b>	<b>1</b>
<b>4.0 CONTAMINANT DELINEATION.....</b>	<b>1</b>
<b>5.0 PRE-EXCAVATION PROCEDURES.....</b>	<b>1</b>
<b>6.0 SUPPORT ACTIVITIES.....</b>	<b>2</b>
<b>7.0 EXCAVATION OF SOILS.....</b>	<b>2</b>
<b>8.0 COMPLETION REPORT.....</b>	<b>3</b>
<b>9.0 FIGURES.....</b>	<b>4</b>

## **1.0 Work Plan:**

On April 10, 2001 SCDEC Groundwater Quality Section approved the recommendation of soil removal at AST 2513-A with the exception that this work plan be submitted to the Department by May 31, 2001. This work plan is designed to be implemented for Zone K; Building 2513, Aboveground Storage Tank (AST) 2513-A located at the Charleston Naval Complex in Charleston, South Carolina. The following guidelines will be adhered to during excavation activities for this site.

## **2.0 Health and Safety:**

All work completed as apart of this work plan will be performed in accordance with the CH2M-Jones Site-Specific Health and Safety Plan.

## **3.0 Sampling and Analysis Plan:**

All sampling activities will be performed in accordance with the Comprehensive Sampling and Analysis Plan (CSAP).

## **4.0 Contaminant Delineation:**

On March 31, 2001 soil samples were collected in order to delineate the area at the former AST 2513-A. Samples were collected in two intervals, the first interval was collected from 0-1 feet below land surface (bls) and the second interval was collected just above the saturated zone (2-3 feet bls). Samples were analyzed for VOCs and PAHs, one trip blank and one equipment blank was collected for quality assurance. Soil samples were analyzed by a certified laboratory. Of the four soil borings collected, only two (513SB00702 and 513SB00802) had levels of PAHs and VOCs above the RBSLs (for more information on the sampling methods and procedures, see the Quarterly Report for 2001). Prior to the excavation, two additional soil samples will be collected to further delineate the area (see Figure 1-1).

## **5.0 Pre-Excavation Procedures:**

To prepare for the start of onsite operations, CH2M-Jones LLC will notify the necessary agencies, departments, and utilities regarding planned activities at the project site. No permits are nessersary for completeing the removal of soils at AST 2513-A.

### **5.1 Site Preparation:**

Site preparation includes establishing a boundary zone for controlled entry into the work site, mobilization of excavation equipment, approved containers for excavated soils, and safety and engineering controlling equipment.

## **6.0 Support Activities:**

### **6.1 Waste Management:**

Three waste streams will be generated as a part of this plan: excavated soils, decontamination wastes, and Personal Protective Equipment. No hazardous wastes are expected to be generated as a result of this plan. Excavated soils will be characterized in accordance with South Carolina Hazardous Waste Management Regulations (Section SCDHEC R.61-79.261), and disposed of in accordance with all applicable regulations and permits. Assuming soils will be characterized as non-hazardous, they will be sent to a subtitle D landfill. Decontamination waste and PPE also will be disposed of in accordance with regulations.

### **6.2 Equipment Decontamination:**

Decontamination of personnel, sampling and removal equipment, and materials will be in accordance with the Comprehensive Sampling and Analysis Plan (CSAP).

## **7.0 Excavation of soils:**

### **7.1 Excavation:**

Figure 1-2 presents the maximum areal extent of the excavation. The area will be further delineated on the northeastern side prior to excavating. The vertical extent has been established to be at three (3) feet below land surface. Excavation will not exceed below the top of the saturated zone.

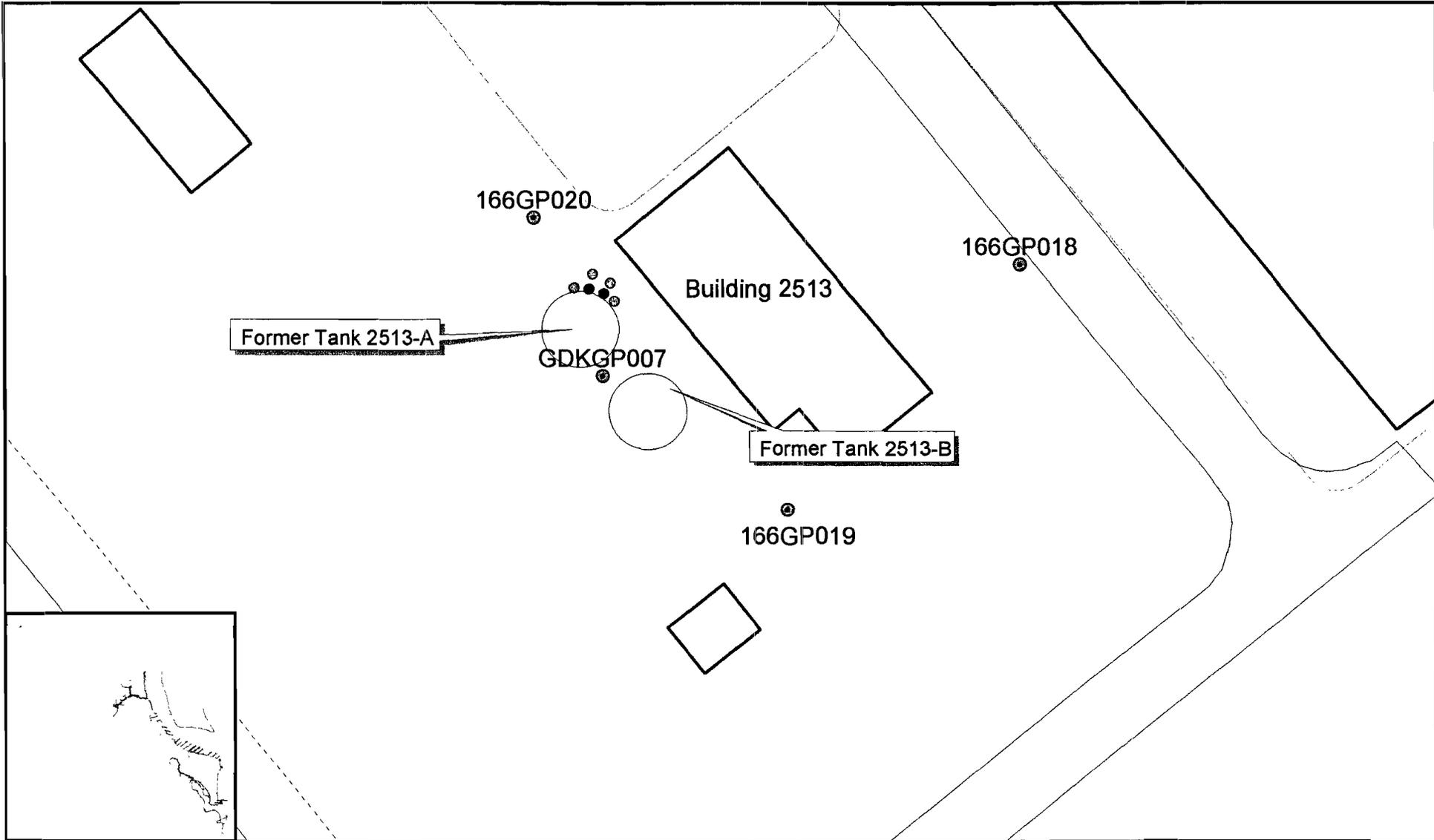
Excavated soils will be transferred immediately to a disposal container (e.g., a roll-off box or similar container) and subsequently transported to an appropriately permitted offsite disposal facility.

Confirmation samples will not be collected prior to backfilling the excavation, as the soil samples previously collected and the additional delineation samples are expected to adequately define the extent of contamination requiring cleanup.

## **8.0 Completion Report:**

A final completion report will be submitted following the excavation of Site 2513-A. The report will summarize the actions that were taken and provide the following information:

- Excavated volumes
- Waste disposal records
- Sampling results
- Site photographs
- Survey data
- Figures of Excavation



166GP020

166GP018

Building 2513

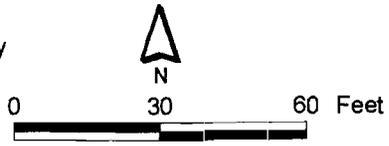
Former Tank 2513-A

GDKGP007

Former Tank 2513-B

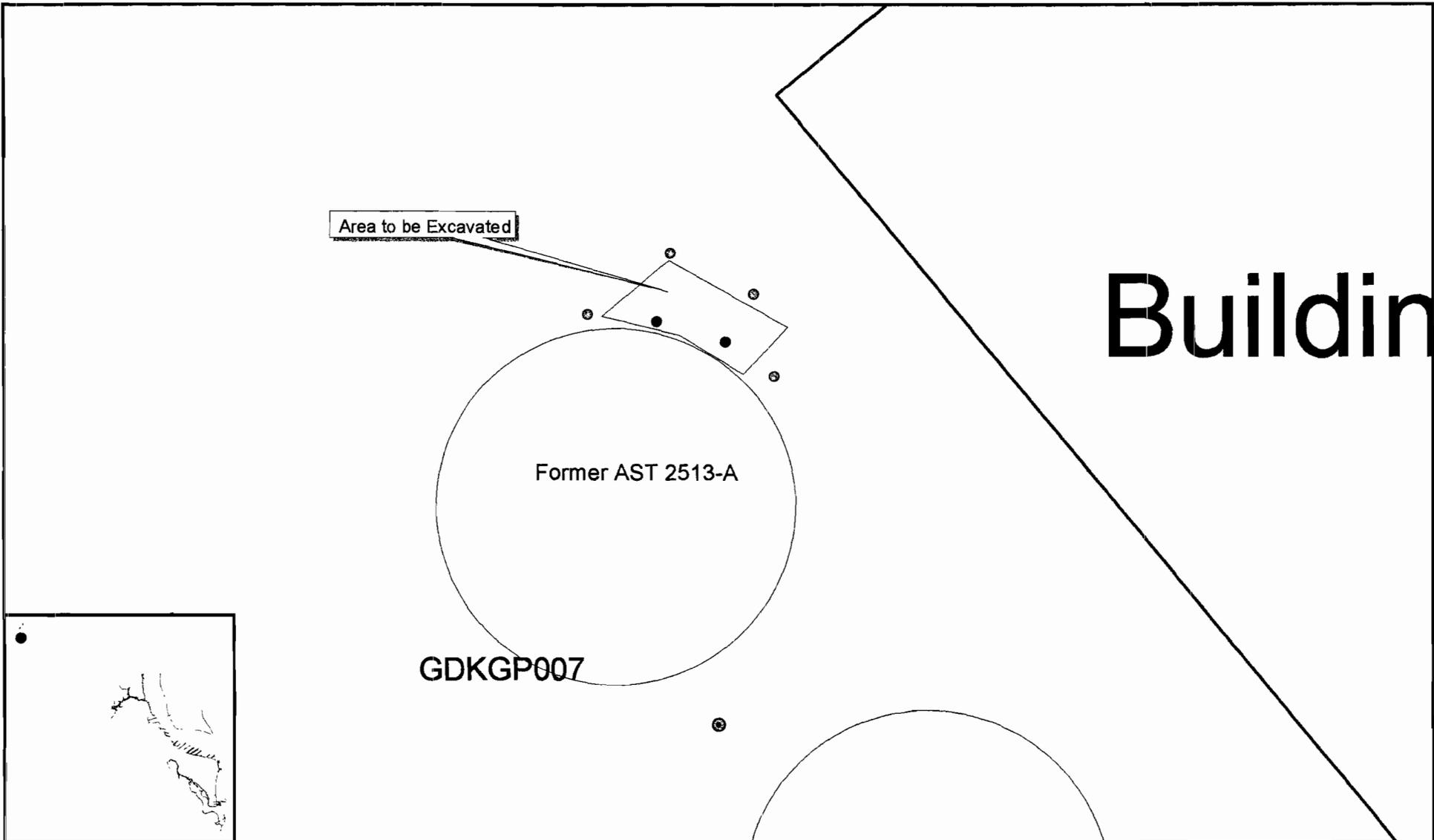
166GP019

- ⊙ Groundwater Probe
- ⊙ "Clean" Soil Samples
- ⊙ "Hot" Soil Samples
- ⊙ Descreate Soil Samples
- ⊙ Fence
- ⊙ Railroads
- Roads - Lines
- Bridges
- Surrounding Area
- Shoreline
- AOC Boundary
- SWMU Boundary
- Buildings
- Zone Boundary



**Figure 1-1**  
 Sample Locations  
 Zone K 2513 A-B  
 Charleston Naval Complex

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Building

Area to be Excavated

Former AST 2513-A

GDKGP007

- ⊙ Groundwater Probe
- "Clean" Soil Samples
- "Hot Soil Samples"
- Descreate Soil Samples



**Figure 1-2**  
Excavation Area  
Zone K; 2513 A-B  
Charleston Naval Complex

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